Application Number :10010227< mm/dd/yyyy>Page 1

1 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L38 QUE L33 AND L34

=> d rank L38
'FULL' IS NOT VALID IN THE CURRENT FILE
This option is not valid in the current file. Enter the command without the option at the arrow prompt (=>). Or, first enter the file in which the saved item created. Then enter the command and option at an arrow prompt in the file.

=> d rank F1 1 DGENE

=> file f1 COST IN U.S. DOLLARS

SINCE FILE TOTAL SESSION 24.75 87.01

FULL ESTIMATED COST

FILE 'DGENE' ENTERED AT 14:25:13 ON 14 MAY 2003 COPYRIGHT (C) 2003 THOMSON DERWENT

FILE LAST UPDATED: 9 MAY 2003

<20030509/UP>

DGENE CURRENTLY CONTAINS 3,563,592 BIOSEQUENCES

>>> DOWNLOAD THE DGENE WORKSHOP MANUAL:
http://www.stn-international.de/training_center/bioseq/dgene_wm.pdf

>>> DOWNLOAD COMPLETE DGENE HELP AS PDF:
http://www.stn-international.de/training_center/bioseq/dgene_help.pdf <<<

>>> DOWNLOAD DGENE BLAST/GETSIM FREQUENTLY ASKED QUESTIONS: http://www.stn-international.de/service/faq/dgenefaq.pdf <<<

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DEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 17:06:25 ON 14 MAY 2003
19 FILES HAVE ONE OR MORE ANSWERS
    QUE 3-ISOPYLMALATE DEHYDRATASE OR BETA-ISOPROPYLMALATE DEHYDRATASE ORISOPR
         OPYLMALATE ISOMERASE OR 3-ISOPROPYLMALATE HYDRO-LYASE OR ALPHA-ISOPROP
          YLMALATE ISOMERASE
61 FILES HAVE ONE OR MORE ANSWERS
    QUE INHIBIT? (5N) (COMPOUND OR MATTER OR COMPD OR SUBSTANCE OR MATERIAL OR
           CHEMICAL)
66 FILES HAVE ONE OR MORE ANSWERS
    QUE SCREEN? OR EVALUAT? OR ASSAY? OR TEST? OR QUANTI?
 60 FILES HAVE ONE OR MORE ANSWERS
    QUE (ANTIBIOTIC OR ANTIBACTERIAL OR ANTIFUNGAL OR ANTIMICROBIAL OR FUNGICI
          D? OR FUNGISTATIC) (5N) COMPOUND
  O FILES HAVE ONE OR MORE ANSWERS
     QUE L1 AND L2
 13 FILES HAVE ONE OR MORE ANSWERS,
     QUE (EC 4.2.1.33)
 10 FILES HAVE ONE OR MORE ANSWERS,
     QUE L1 AND L6
  O FILES HAVE ONE OR MORE ANSWERS
     QUE L5 AND L7
   2 FILES HAVE ONE OR MORE ANSWERS
     QUE L7 AND L3
  d rank
                     MEDLINE
                     USPATFULL
                1
> file f1-f2
  L9
                2 L9
10
                0 L10 AND L2
11
                0 L10 AND L4
12
                 0 L7 AND L4
     ANSWER 1 OF 2
                             MEDLINE
 10
      94171070
                       MEDLINE
      94171070 PubMed ID: 8125330
The LEU1 gene of Ustilago maydis.
 Ν
      Rubin B P; Li D; Holloman W K
      Department of Microbiology, Cornell University Medical College, New York,
 ς
      NY 10021.
      GM42482 (NIGMS)
GM42548 (NIGMS)
      GENE, (1994 Mar 11) 140 (1) 131-5.
Journal code: 7706761. ISSN: 0378-1119.
 0
                                                                                    QH 442.643
      Netherlands
      Journal; Article; (JOURNAL ARTICLE)
       English
       Priority Journals
      GENBANK-L20832
       199404
       Entered STN: 19940420
      Last Updated on STN: 19940420
Entered Medline: 19940414
      The nucleotide sequence of the Ustilago maydis LEU1 gene has been
       determined. It contains a continuous open reading frame predicted to encode a protein of 773 amino acids with a molecular mass of 83,234 Da. The protein is homologous to ***alpha*** - ***isopropylmalate***
       The protein is homologous to ***alpha*** - ***isopropylmalate***

***isomerases*** from prokaryotes and eukaryotes, as well as to other
       members of a family of structurally related isomerases.
      ANSWER 2 OF 2 USPATFULL 2003:78516 USPATFULL
  10
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STAPHYLOCOCCUS AUREUS POLYNUCLEOTIDES AND SEQUENCES

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KUNSCH, CHARLES A., GAITHERSBURG, MD, UNITED STATES CHOI, GIL A., ROCKVILLE, MD, UNITED STATES BARASH, STEVEN C., ROCKVILLE, MD, UNITED STATES DILLON, PATRICK J., GAITHERSBURG, MD, UNITED STATES FANNON, MICHAEL R., SILVER SPRING, MD, UNITED STATES ROSEN, CRAIG A., LAYTONSVILLE, MD, UNITED STATES US 2003054436 A1 20030320 US 1997-781986 A1 19970103 (8) US 1996-9861P 19960105 (60)
IN
ΑI
PRAI
                      Utility
DT
                      APPLICATION
 FS
                      HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
 LREP
                      Number of Claims: 29
 CLMN
                      Exemplary Claim: 1
2 Drawing Page(s)
 ECL
 DRWN
LN.CNT 13414

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The present invention provides polynucleotide sequences of the genome of Staphylococcus aureus, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and ***assays*** and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.
 LN.CNT 13414
                       facilitate its use.
                                         O (ALPHA-ISOPROPYLMALATE ISOMERASES) (5N) INHIBIT?
O (ALPHA-ISOPROPYLMALATE ISOMERASES) (5N) INHIBITOR
                                          0 (ALPHA-ISOPROPYLMALATE ISOMERASES) AND L4
```

- L6 ANSWER 68 OF 70 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND
- ISI AN 1991-08933 BIOTECHDS
- TI Some properties of the leucine-biosynthesizing enzymes from Candida maltosa;
 - 1-isopropylmalate-synthase, 3-isopropylmalate-dehydratase,
 - 3-isopropylmalate-dehydrogenase purification and characterization
- AU Bode R; Birnbaum D
- LO Ernst-Moritz-Arndt-Universitaet Greifswald, Fachrichtung Biologie, Institut fuer Biochemie, Jahnstrasse 15a, O-2200 Greifswald, Germany.
- SO J.Basic Microbiol.; (1991)·31, 1, 21-26 CODEN: JBMIEQ
- DT Journal
- LA English
- AN 1991-08933 BIOTECHDS
- AB The enzymes of the leucine biosynthetic pathway in Candida maltosa L4 were partially purified and their catalytic properties determined.

 Maximum activity of the first enzyme, alpha-isopropylmalate
 (IPM)-synthase (1-isopropylmalate-synthase, EC-4.1.3.12), was observed at pH values between 7.5 and 8.8. The Km values for alpha-ketoisovalerate and acetyl-CoA were 0.57 mM and 0.064 mM, respectively. Enzyme activity was ***inhibited*** specifically by L-leucine, and was strongly dependent on the presence of monovalent cations, preferably K+ (80 mM). IPM-dehydratase (***3*** ***isopropylmalate*** ***dehydratase*** , EC-4.2.1.33) activity showed a sharp optimum at pH
 - ***dehydratase*** , EC-4.2.1.33) activity showed a snarp optimum at property and L-leucine, leading to the cations for activity, and L-leucine, leading to the cations for activity. The phoptimum of beta-IPM-dehydrogenase (3-isopropylmalate-dehydrogenase, EC-1.1.1.85) was 6.8, with 50% of the optimum activity expressed at phomogenase and phoptimum activity, but divalent ions increased activity (preferably Mn2+ at 1 mM). Enzyme activity was ***inhibited*** by L-valine. (23 ref

IUBMB Enzyme Nomenclature

EC 4.2.1.33

Common name: 3-isopropylmalate dehydratase

Reaction: 3-isopropylmalate = 2-isopropylmaleate + H_2O

Other name(s): β -Isopropylmalate dehydratase; isopropylmalate isomerase; α -isopropylmalate isomerase

Systematic name: 3-isopropylmalate hydro-lyase

Comments: The enzyme also hydrates the product to 3-hydroxy-4-methyl-3-carboxypentanoate, thus bringing about an interconversion between the two isomers.

Links to other databases: BRENDA, EXPASY, KEGG, WIT, CAS registry number: 37290-72-5

References:

1. Gross, S.R., Burns, R.O. and Umbarger, H.E. The biosynthesis of leucine. II. The enzymic isomerization of β -carboxy- β -hydroxyisocaproate and α -hydroxy- β -carboxyisocaproate. *Biochemistry* 2 (1963) 1046-1052.

[EC 4.2.1.33 created 1972, modified 1976]

Return to EC 4.2.1 home page

Return to EC 4.3 home page

Return to EC 4 home page

Return to Enzymes home page

Return to <u>IUBMB</u> Biochemical Nomenclature home page